

Application No.: 09/886,256
Amendment Dated: July 28, 2003
Reply to Office Action of: March 27, 2003

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently Amended) A thermoplastic resin composition, comprising:
a polyamide resin component ~~composed of~~ comprising
(A) 5 to 95% by weight of ~~the following component~~ (A) a polyamide resin
obtained by polycondensing diamine(s) including at least
tetramethylenediamine with dicarboxylic acid(s) including at least adipic acid,
based on a total amount of (A) and (B); and
(B) 95 to 5% by weight of ~~the following component~~ (B): a polyamide resin
obtained by polycondensing diamine(s) including at least one of 1,9-
nonanediamine and 2-methyl-1,8-octanediamine with dicarboxylic acid(s)
including at least terephthalic acid, based on a total amount of (A) and (B)
~~Component (A): a polyamide resin obtained by polycondensing diamine(s) including at least~~
~~tetramethylenediamine with dicarboxylic acid(s) including at least adipic acid; and~~
~~Component (B): a polyamide resin obtained by polycondensing diamine(s) including at least~~
~~one of 1,9-nonenediamine and 2-methyl-1,8-octanediamine with dicarboxylic acid(s)~~
~~including at least terephthalic acid.~~

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2. (Currently Amended) The thermoplastic resin composition according to Claim 1, wherein the polyamide resin component is composed of comprises 55 to 80% by weight of the component (A) and 45 to 20% by weight of the component (B).

3. (Currently Amended) The thermoplastic resin composition according to Claim 1 or 2, wherein the component (A) is composed of comprises a polyamide 4,6 resin obtained from tetramethylenediamine and adipic acid.

4. (Currently Amended) The thermoplastic resin composition according to ~~any one of~~ Claims 1 to ~~3~~ or 2, wherein the component (B) is composed of comprises a polyamide resin obtained from 1,9-nonanediamine and/or 2-methyl-1,8-octanediamine and terephthalic acid.

5. (Currently Amended) The thermoplastic resin composition according to ~~any one of~~ Claims 1 to ~~4~~ or 2, which comprises, per 100 parts by weight of the polyamide resin component, 5 to 70 parts by weight of (C) a flame retardant and 0 to 50 parts by weight of (D) a flame-retardant aid.

6. (Currently Amended) The thermoplastic resin composition according to ~~any one of~~ Claims 1 to ~~5~~ or 2, which comprises, per 100 parts by weight of the polyamide resin component, 5 to 300 parts by weight of (E) an inorganic filler.

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7. (New) The thermoplastic resin composition according to Claim 1, wherein component (A) has a relative viscosity of 2.0 to 6.0 at a polymer concentration of 1 g/dl in 96% sulfuric acid at 25 °C.

8. (New) The thermoplastic resin composition according to Claim 1, wherein said diamine of component (A) is selected from the group consisting of hexamethylenediamine, undecamethylenediamine, dodecamethylenediamine, 2,2,4-trimethylhexamethylenediamine, 2,4,4-trimethyl-hexamethylenediamine, 5-methylnonamethylenediamine, m-xylylenediamine, p-xylylenediamine, 1,3-bis(aminomethyl)-cyclohexane, 1-amino-3-aminomethyl-3,5,5-trimethylcyclo-hexane, bis(3-methyl-4-aminocyclohexyl)methane, 2,2-bis(4-aminocyclohexyl)propane, 2,2-bis(aminopropyl)piperazine, aminoethylpiperazine, ethylenediamine, propylenediamine, 1,8-octanediamine and mixtures thereof.

9. (New) The thermoplastic resin composition according to Claim 1, wherein an amount of said tetramethylenediamine is at least 50% by mole.

10. (New) The thermoplastic resin composition according to Claim 1, wherein said dicarboxylic acid for component (A) is selected from the group consisting of aliphatic dicarboxylic acids, alicyclic dicarboxylic acids and aromatic dicarboxylic acids.

11. (New) The thermoplastic resin composition according to Claim 1, wherein an amount of said adipic acid is at least 50% by mole.

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12. (New) The thermoplastic resin composition according to Claim 1, wherein said component (A) comprises a unit derived from a polycarboxylic acid having at least 3 functional groups.

13. (New) The thermoplastic resin composition according to Claim 1, wherein said component (B) has an intrinsic viscosity of 0.4 to 3.0 dl/g as measured at 30°C in concentrated sulfuric acid.

14. (New) The thermoplastic resin composition according to Claim 1, wherein said diamine other than 1,9-nananediamine and 2-methyl-1,8-octanediamine of component (B) is selected from the group consisting of hexamethylenediamine, undecamethylenediamine, dodecamethylenediamine, 2,2,4-trimethylhexamethylenediamine, 2,4,4-trimethylhexamethylenediamine, 5-methylnonamethylenediamine, m-xylylenediamine, p-xylylenediamine, 1,3-bis(aminomethyl)-cyclohexane, 1-amino-3-aminomethyl-3,5,5-trimethylcyclo-hexane, bis(3-methyl-4-aminocyclohexyl)methane, 2,2-bis(4-aminocyclohexyl)propane, 2,2-bis(aminopropyl)piperazine, aminoethylpiperazine, ethylenediamine, propylenediamine, 1,8-octanediamine and mixtures thereof.

15. (New) The thermoplastic resin composition according to Claim 1, wherein said 1,9-nananediamine and/or said 2-methyl-1,8-octanediamine of component (B) are present in an amount of at least 50 mole %.

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16. (New) The thermoplastic resin composition according to Claim 1, wherein said terephthalic acid is present in an amount of at least 50 mole %.

17. (New) The thermoplastic resin composition according to Claim 1, wherein said component (B) further comprises at least one unit derived from a member selected from the group consisting of ϵ -caprolactam, ω -laurolactam, ζ -enanthlactam and η -capryllactam.

18. (New) The thermoplastic resin composition according to Claim 1, wherein at least one of components (A) and (B) is capped at at least one terminal group with a terminal capping agent which is a monofunctional compound having reactivity to an amino group or a carboxyl group at a terminal of components (A) and/or (B).

19. (New) A molded part obtainable by molding a thermoplastic resin composition according to Claim 1.

20. (New) An electric or electronic part comprising a thermoplastic resin composition according to Claim 1.

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BASIS FOR AMENDMENT

Claims 1-6 have been amended to better conform to accepted U.S. claim format.

New Claims 7-20 have been added.

New Claim 7 is supported at page 7, lines 7-12.

New Claim 8 is supported at page 7, lines 15-24.

New Claim 9 is supported at page 8, lines 1-2.

New Claim 10 is supported at page 8, lines 6-22.

New Claim 11 is supported at page 8, lines 23-26.

New Claim 12 is supported at page 8, last line to page 9, 1st paragraph.

New Claim 13 is supported at page 11, lines 12-16.

New Claim 14 is supported at page 11, lines 20-21.

New Claim 15 is supported at page 11, line 25-page 12, line 3.

New Claim 16 is supported at page 12, lines 23-26.

New Claim 17 is supported at page 12, last line-to page 13, line 3.

New Claim 18 is supported at page 13, lines 5-12.

New Claims 19 and 20 are supported at page 1, lines 17-19 and page 25, line 21 to page 26, line 19 and the examples.

No new matter is believed to have been added by entry of this amendment.

Entry and favorable reconsideration are respectfully requested.

Upon entry of this amendment Claims 1-20 will now be active in this application.

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INTERVIEW SUMMARY

Applicants wish to thank Examiner Woodward for her helpful and courteous discussion with Applicants' Representative on July 10, 2003. During this discussion it was noted that Yamagishi et al fail to disclose or suggest a semi-aromatic polyamide including at least one of 1,9-nonenediamine and 2-methyl-1,8-octane diamine. In addition, the superior properties of the claimed resin composition were discussed in view of the Examples and Comparative Examples in Table 3, 2nd part at page 34 of the specification.